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W-8000 München 71(DE)(54) **Apparatus and method for minimizing differential thermal expansion of gas turbine vane structures.**

(57) In a gas turbine having a plurality of shrouded vane segments (1) and a duct (58) directing a hot gas (19) to flow through the vanes (7) over a first surface (30) of the shroud (3), a containment structure (9) is provided for containing and distributing cooling air (13) which consists of a first layer (17) and a second layer (18) joined to form a laminate structure (9) and which is attached to a second surface (24) of each of said shrouds (3) and has first passageways (59) disposed between the first and second layers (17, 18), in flow communication with a plurality of second passageways (29) formed in said shrouds (3) for directing a portion (26) of said hot gas (19) to said first passageways (59) to minimize differential thermal expansion of the structure.

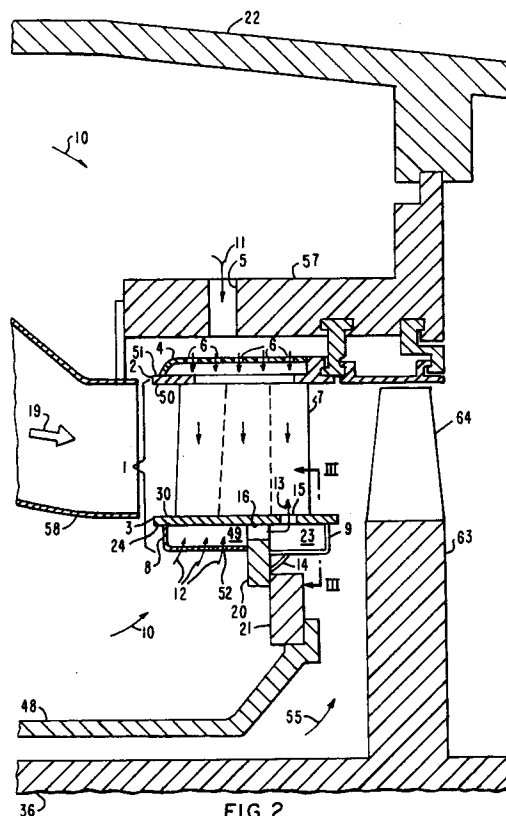


FIG. 2

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